

CERTIFICATE OF ANALYSIS

COA #: **SD20260820_013_MT2**

SAMPLE INFORMATION

Client	Zentra brands limited	Accession #	SD20260820_013
Compound	MT-2	Date Received	08/20/2026
Molecular Formula	C50H69N15O9	Date Reported	08/22/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0032
Storage	Room Temp	CAS Number	121062-08-6
Cap Color	White		



All Chemical Analysis Performed by LC-MS/MS

ANALYTICAL RESULTS

Test / Analysis	Method	Specification	Result	Status
Identity (Mass Confirmation)	LC-MS/MS	Matches reference mass	Melanotan II (MT-2)	Pass
Purity	LC-MS/MS	≥ 95.0%	99.65%	Pass
Net Peptide Content	LC-MS/MS	Report value	10.82 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1026.5 [M+H]	Pass
Theoretical Molecular Mass	Reference	—	1024.18 Da	Pass
Related Substances / Impurities	LC-MS/MS	Report value	Not Detected	Pass
Residual Solvents	LC-MS/MS	Report value	Not Detected	Pass

John Humes, MS. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 08/22/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/22/2026

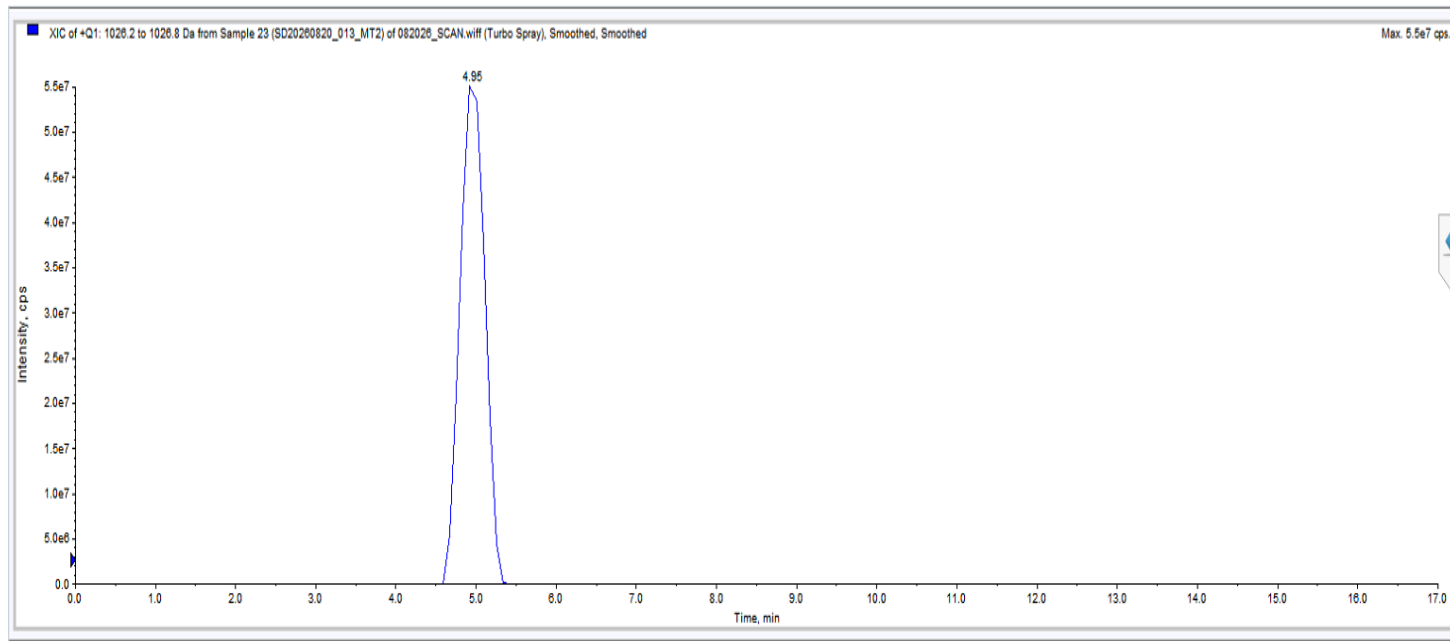
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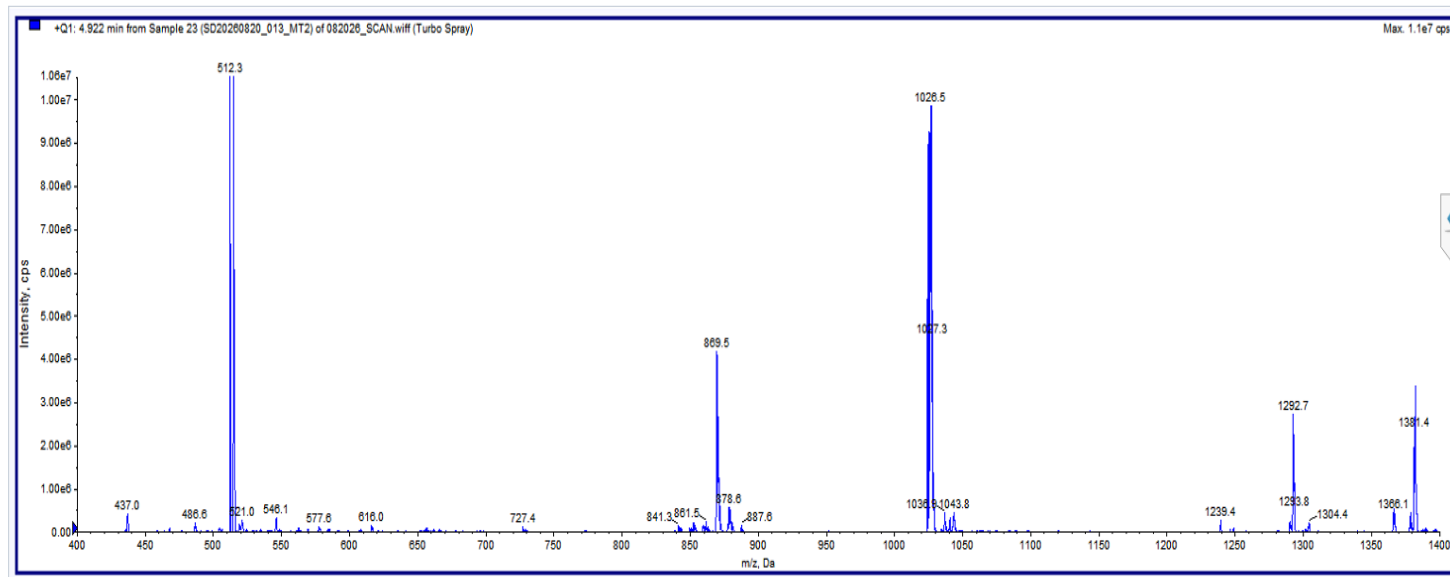
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Melanotan II (MT-2)—Identity(Q1MS)

The sample "MT2" was analyzed by LC-MS in positive-mode Q1 full scan at 4.92min. The spectrum shows a distinct peptide charge-state envelope with major ions at m/z 512.3 ($[M+2H]^{2+}$), and 1026.5 ($[M+H]^+$), consistent with the expected molecular weight and ionization profile of melanotan II. The observed pattern and retention time match those of a certified MT-2 reference standard analyzed under identical conditions. These results confirm the identity of the active ingredient as melanotan II.

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